

REEL # 171

FROM: GROSSMAN, G.

The enthalpy of formation of zinc phosphide, Zn₃P₂, H. A.
Shchukarev, G. Grossman, and N. P. Morozova (USSR:
Soviet Union). *Zhur. Obshch. Khim.* 25, 630-4 (1955).

The enthalpy of formation of Zn₃P₂ from the elements was
detd. calorimetrically and found to be equal to -98 ± 3
kcal./mole. The course of the value of the enthalpy of for-
mation for the compds. of Zn with N, P, and As, follows
the rule of secondary periodicity (cf. Bron, C.I., 9, 3030).

J. Rector Lach

U S S R

2
Saw

Grossmann, G.

6

The forms of mixed thermodynamically stable binary compounds of elements of complementary subgroups: S. M. Aris, M. P. Morozova, E. Vol'f, and G. Grossmann. *Zhur. fiz. khim.*, 37, No. 1, 1963. In compounds of apparent mixed valence, such as the oxides of Ti, V, Cr, Mn, Fe, Co, W, the Pt, Ce, Pr, and Tb, the sulfides and selenides of Cu, the bromides of Fe, and the chlorides of Nb, the empirical formula can always be resolved into a 2:1 ratio of the normal oxides. C. H. Puechstein.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4

Chemistry of compounds with varying composition; V. Chemical structure of iron oxide according to data on the magnetic properties of iron oxides at high temperatures. A. M. Arshia and G. Grossmann. *Zhur. Neorgan. Khim.*, 1, 110 (1956). In agreement with previous data, the lower limit of the region of homogeneity of iron oxide lies at 900° near the composition Fe_{2}O_3 and at 700° near the composition $\text{FeO}_{1.5}$. The magnitude of the magnetic permeability of iron oxide of different compositions shows that the orbital moments of Fe^{2+} ions are not completely blocked by the lattice field and that they make a definite contribution to the magnetic permeability of iron oxide. Like the variation of enthalpy of formation of iron oxides in relation to composition, the variation of magnetic permeability in the system Fe-O shows no significant indication of a specific interaction of Fe^{2+} ions with Fe^{3+} ions in the iron oxide lattice. The lowering of magnetic permeability according to the amount of trivalent iron in the oxide and the fact that the permeability is close to what would be expected if the oxide were a physical mixture of oxide low in oxygen with oxide higher in oxygen lead to the conclusion that ions of Fe^{2+} in the lattice are located near each other, as though in islands or domains in the lattice containing the ions. Similar microinhomogeneities can also be postulated in other compounds of varying composition and in solid solutions. Some consideration was given to the similarity in magnetic and energy diagrams of the systems Fe-O and Mn-O. In both cases, under special conditions, a compound of the type MgO_2 is found. 11 references. D. T. W.

Approved 5th U. in 2nd class

100-1000

GROSSMAN, G.I., inzhener.

Economizing on rolled metal in farm machinery production. Sel'khozmashina
no.11:26-28 N '53.
(MLRA 6:11)
(Agricultural machinery industry)

GROSSMAN, G.I.

Some results of the reorganization of the sector level of the rural public health system. Zdrav.Rus.Fed. 1 no.7:12-16 Jl '57.

1. Iz Tyumentsevskoy rayonnoy bol'nitsy Altayskogo kraya.
(TYUMENTSEV--PUBLIC HEALTH, RURAL) (MIRA 12:12)

GROSSMAN, G.I.

Prevention of injuries in a rural district. Zdrav.Ros.Feder. 1
no.9:11-14 S '57.
(MIRA 10:11)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta vosstano-
vitel'noy khirurgii, travmatologii i ortopedii (dir. - chlen-kor-
respondent AMN SSSR prof. F.P.Bogdanov)
(AGRICULTURE--ACCIDENTS)

KOLOMIYTSEV, F.M.; KODKIN, A.S.; GROSSMAN, G.I.

Some actual problems in the operation of rural medical institutions under the new system. Sov.zdrav. 17 no.12:20-25 D '58.

1. Iz kafedry organizatsii zdravookhraneniya Altayskogo meditsinskogo instituta (dir. - dots. F.M. Kolomiytsev) i Tyumentsevskoy rayonny bol'nitsy (glavnnyy vrach G.I. Grossman).
(PUBLIC HEALTH

in Russia (Rus))

GROSSMAN, G.I.

Some comparative data on job-related and other accidents in rural areas. Ortop.travm. i protez. 20 no.2:38-42 F '59. (MIRA 12:12)

1.Lz Tyumentsevskoy rayonnoy bol'nitsy Altayskogo kraya (glavnnyy vrach - G.I. Grossman).

(WOUNDS AND INJURIES
traumatol. in Russia (Rus))
(ACCIDENTS, INDUSTRIAL
in Russia (Rus))

GROSSMAN, G.I., kand.med.nauk; LINKE, A.R.

Organization of patients' visits at the polyclinical section of the
Altai Regional Hospital. Zdrav.Ros.Feder. 6 no.7:19-22 Jl '62.

(ALTAI TERRITORY--HOSPITALS)

(MIRA 15:9)

GROSSMAN, G.I., kand.med.nauk

Specialized medical field trips serving the rural population.
Zdrav.Ros.Feder. 7 no.2:12-15 F '63. (MIRA 16:4)
(ALTAI TERRITORY--MEDICINE, RURAL)

ZIGLING, L.V.; Prinimali uchastiye: BERMAN, E.A., vrach; GOLUBEVA, N.S., vrach; SEMENOVA, A.N.

Clinical aspects and diagnosis of epidemic hepatitis in adults
in Leningrad. Trudy LPNI 30:40-53 '63.

l. Bol'nitsa imeni S.P.Botkina v Leningrade (glavnyy vrach M.M.
Figurina, nauchnyy rukovoditel' prof. Ye.S.Gurevich).

(MIRA 18:3)

GROSSMAN, Jerzy; GAIKOWSKI, Tadeusz

The influence of fatigue on the lowering of the threshold
curve of hearing and prolongation of the reaction time.
Acta med. Pol. 5 no.43447-452 '64

1. The Phoniatic Department , Otoryngological Clinic,
Medical Academy, Warsaw (Director: prof. dr. A. Mitrinowicz-
Modrzejewska).

GROSSMAN, L.; VASIL'YEVA, V.

Production index and method of distributing the production among
shifts in copper smelting plants. Sots. trud 5 no.9:135-136 S
'60. (MIRA 13:10)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut
mednoy promyshlennosti.
(Ural Mountain Region--Copper industry)

GROSEMAN, J.

Our experiences with resuscitation on newborn infants. Cesk. pediat. 19 no. 9s804-807 S '64.

1. Novcrodenecky usek Obvodniho statku narodniho zdravi v Ziline.

NULSENFAUM, A. A. , CROESMAN, I. G.

Biology - United States

Reactionary biology in the schools of the United States. Est. v shkole No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952, UNCLASSIFIED.

GROSSMAN, L.G.

Excursion to the State Agricultural Experiment Station. Est.
v shkole no.4:93 Jl-Ag '54. (MLRA 7:8)

1. Agronom Dmitrovskogo gossoortouchastka Dmitrovskogo rayona
Moskovskoy oblasti.
(School excursions) (Agricultural experiment stations)

NYUBOM, N. [Nybom, N.]; GROSSMAN, L.G.[translator]; ROZENFEL'D, M.I.[translator]

Using induced mutation in plant breeding. Agrobiologija no.5:15-28
(MIRA 11:11)
S-0 ' 58.
(Plant breeding) (Botany--Variation)

NYUBOM, N. [Nybom, N.]; GROSSMAN, L.G. [translator]; ROZENFELD, M.I.
[translator]; NEYMAN, N.F. [translator].

Applying induced mutation in plant breeding. Agrobiologija no.6:
44-49 N-D '58. (MIRA 12:1)
(Plant breeding) (Botany--Variation)

GROSSMAN, L.G.

Plant breeding for disease resistance. Zashch. rast. ot vred.
i bol. 6 no.4:55-56 Ap '61. 'MIRA 15:6)
(Plants--Disease and pest resistance)

GROSSMAN, L.I.; YEROPKIN, Yu.I.; STREL'TSYN, G.S.

Use of a cyano-salt to separate bulk sulfide products of flotation.
TSvet.met. 27 no.5:16-21 S-0 '54. (MIRA 10:10)

1. Institut Mekhanobr.
(Flotation) (Potassium ferricyanide)

...the degree of overall utilization of raw materials.
S. S. Shevchenko, Sov. avt. zhur. 7 No. 11:47-50 '64.

(MIRA 18:3)

Ural'skiy politekhnicheskiy institut imeni Kirova. Rekomendovana
tekhnicheskaya ekonomika i organizatsiya predpriyatiy tsvetnoy metallurgii.

GROSSMAN, M.; AZARKH, L.

Supply organization for ground troops of the German Federal Republic
at the corps-battalion level. Tyl i snab.Sov.Voor.Sil 21 no.1:95-
96 Ja '61. (MIRA 14:6)
(Germany, West--Army--Supplies and stores)

GROSSMAN, M.I.; VUDVORD, E.R. [Woodward F.R.]

Gastric distension as a stimulus for acid secretion in human
subjects. Izv. AN Uz. SSR Ser. med. no.1:69 '59 (MIRA 12:7)
(STOMACH--SECRETIONS)

GROSSMAN, N.Ya.; KOVAL¹, V.A.; GUTMAN, L.M.; SEMENENKO, D.P.

Automatic lorry car in operation. Koks i khim. no.2 29-32 '63.
(MIRA 16:2)

1. Spetsial'noye konstruktorskoye byuro izmeritel'nykh mashin
(for Grossman, Koval¹). 2. Donetskij koksokhimcheskiy zavod (for
Gutman, Semenenko).

(Donetsk--Coke industry--Equipment and supplies)

RUMANIA / Chemical Technology. Chemical Products and Their Application.
Lacquers. Paints. Paint and Lacquer Coatings.

H-30

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 16324.

Author : Grossman R., Schwartz L.

Inst :

Title : Lead Cyanamide as a Substitute for Red Lead in Weatherproof Paints.

Orig Pub: Rev. chim., 1956, 7, No 8, 459-461.

Abstract: It is shown that red lead can be advantageously replaced by Pb-cyanamide in weatherproof paints. As a result thereof the covering power of the paint is increased twofold, toxicity of the paint is decreased and the weatherproof properties characteristic of red lead paint are fully retained.

Card : 1/1

Grossman, R.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R000617110001-4"

RUMANIA / Chemical Technology. Chemical Products and H
Their Application. Lacquers. Paints. Cont..
ings.

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 35384.

Author : Grossman, R., Mateescu, M.

Inst : Not given.

Title : A New Paint for Marine Vessels.

Orig Pub: Tehn. noua, 1958, 5, Mo. 151, 8.

Abstract: No abstract.

Card 1/1

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4

GROSSMAN, Z. I. LAZELINSKIY, K. S.

26568 Lesnaya sealka SL-4. Sel'khozmashina, 1949, No. 8, s. 2-5.

SO: LETOPIS' NO. 35. 1949

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4"

GROSSMAN, R. I.

Gnezdovyye, kvadratno-gnezdovyye, razroshnye seyalki (Cradle, square cradle
seed and spreader drills, by) R. I. Grossman i I. Ya. Antonenko, Moskva, Nashaja,
1954.

186 P. Illus., Diagrs.

SO: N/5
741.2
.G8

GROSSMAN, R.I., kandidat tekhnicheskikh nauk; POGODIN, N.G., inzhener.

Testing a SUT-47 grain and grass sowing machines at higher speed.
Sel'khozmashina no.11-3-8 N '54. (MLRA 7;11)
(Agricultural machinery)

GROSSMAN, R. I., kandidat tekhnicheskikh nauk.

Testing the seeding apparatus for accuracy in checkrowing corn.
Sel'khozmashina no.9:16-17 S '56. (MLRA 9:11)
(Planters (Agricultural machinery))

GROSSMAN, R.J., kandidat tekhnicheskikh nauk; KOLPIKOV, N.V., mладший
научный сотрудник; SLUTSKER, Ya.I.

SUL-48 combined flax and fertilizer drill. Sel'khozmashina no.11:
3-7 N '56. (MLRA 9:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyay-
stvennogo mashinostroyeniya (for Kolpikov). 2. Rukovoditel' grup-
py Spetsial'nogo konstruktorskogo byuro zavoda "Krasnaya zvezda"
(for Slutsker).

(Drill (Agricultural implement)) (Flax)

GROSSMAN, R.I., kand.tekhn.nauk.

Truck-mounted loader for drills. Sel'khozmnzhina no.7:11 J1 '57.
(MIRA 11:1)

(Drill (Agricultural implement))

GROSSMAN, R.I.

Mounted flax seeders. Biul.tekh.-ekon.inform no.2:66-67 '59.
(MIRA 12:3)
(Flax) (Agricultural machinery)

GROSSMAN, R.I.; KOLPIKOV, N.V.; SLUTSKER, Ya.I.

Mounted flax drille. Trakt. i sel'khozmash. no.3:45-47 Mr '59.
(MIRA 12:4)
(Drill (Agricultural machinery))

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4

GROSSMAN, R.I.; OMENNAL', M.P.

Mounted grain drills. Biul.tekh.-ekon.inform. no.3:49-51
'60. (MIRA 13:6)
(Drill(Agricultural implement))

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4"

GROSSMAN, R.I.; ODEGNAL¹, M.P.

Mounted grain and grass sowing machines. Biul.tekh.-ekon.inform.
no.5:49-52 '60. (MIRA 14:3)
(Drill)

GROSSMAN, R.I.; ODEGNAL', M.P.

Combined tractor-mounted drills for grain and hayseeds. Trakt. i
sel'khozmash. 30 no.9:33-36 S '60. (MIRA 13:9)
(Drill (Agricultural machinery))

GROSSMAN, R. I., kand.tekhn.nauk

Investigating the performance of the working parts of drills at increased speeds. Trakt.i sel'khoznyaystvennogo mashinostroyeniya.
(MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skozyaystvennogo mashinostroyeniya.
(Drill (Agricultural implement))

STEPAN, Miroslav; GROSSMANN, Rostislav

Vulcanization degree of rubber floor coverings. Chem prum 12 no.12:692-694 D '62.

1. Statni komise pro rozvoj a koordinaci vedy a techniky, Praha (for Stepan). 2. Spolek pro chemickou a hutni výrobu, n.p., Usti nad Labem (for Grossmann).

SOV/122-58-7-28/31

AUTHOR: Grossman, S.B., Engineer

TITLE: A New Apparatus for Duplicating Documents and Drawings
Directly from the Original (Novyy apparat dlya razmno-
sheniya dokumentov i chertezhey neposredstvenno s
originala)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 7, p 83 (USSR)

ABSTRACT: Copying apparatus based on xerography achieving an output
speed of 6 m/min in duplicating, enlarging and reducing
of drawings including pencil drawings is briefly
specified and contrasted with Soviet photo-printing
equipment of which the SKM-4 "VISKhOM" reaches 2.4 m/min.

Card 1/1

GROSSMAN, S.B., inzh.

Automation of the work of engineers, technicians, and administrative personnel. Mekh.i avtom.proizv. 14 no.12:44-47 D '60.
(MIRA 13:12)

(Office equipment and supplies)
(Electronic calculating machines)

GROSSMAN, S.S., inzh.

Automatic device for recording the operation of twenty machine tools. Mekh.i avtom proizv. 15 no. 2:47-48 F '61. (MIRA 14:2)
(Production control)

KOKOREV, V.; KURNIN, D.; KARAVAYEV, S.; GROSSMAN, V.; GULAKOV, E.;
SELETSKIY, F.; DASHIN, V.

It is sensible to combine all services into a shopping center.
Sov. torg. 33 no. 9:14-16 S '60. (MIRA 14:2)

1. Nachal'nik Upravleniya tekhniki i kapital'nogo stroitel'stva Ministerstva torgovli RSFSR (for Kokorev).
2. Nachal'nik Upravleniya organizatsii torgovli Ministerstva torgovli RSFSR (for Kurnin).
3. Direktor Giprotorga (for Karavayev).
4. Glavnnyy spetsialist Giprotorga (for Grossman).
5. Starshiy ekonomist Upravleniya organizatsii torgovli Ministerstva torgovli RSFSR (for Gulakov).
6. Glavnnyy arkhitekter proyektov Giprotorga (for Seletskiy).
7. Rukovoditel' gruppy ekonomi ekonomiceskikh raschetov Giprotorga (for Feskin).

(Shopping centers)

GROSSMAN, V., inz.

Small difficulties in designing water main and sewage
connection conduits. Vodni hosp 14 no.5.170 '84.

1. District Water Resources Management Agency, Opava.

CZECHOSLOVAKIA

GROSSMAN, V.; MRAZOVÁ, J.; VESELY, C.; Department of Pharmacology and Department of Physiology, Charles University Faculty of Medicine, Hradec Kralove.

"Modification by Ionizing Radiation of the Central Nervous Reactivity to Stimulating Drugs."

Prague, Activitas Nervosa Superior, Vol 5, No 4, 1963, pp 356 -
351

Abstract: (Authors' English Abstract) A study was made of the effect of drugs stimulating the CNS in mice, rats, and rabbits during 6 days after irradiation with a mean lethal dose of X-rays. It was found that mice showed a lowered intravenous toxicity and increased convulsion to a lethal dose of pentazol, pentazol treated rats had a lowered motor activity after an original hyperactivity, and rabbits showed shortening of the pentazol ECoG changes. Some rats developed a defensive conditioned reflex under standard conditions. These were improved by caffein, methylphenylidat, benzedrine. Radiation probably does not affect in a special way definite processes, but probably disturbs energetic metabolism. 3 Figures, 2 Tables, 5 Western, 5 Czech, 12 Russian, 1 Hungarian reference.

1/1

- 1 -

GROSSMAN, V.; DYNTAROVA, H.; SLANO, J.; KORNOVA, J.

Changes in the effect of adrenalin and noradrenalin on the blood pressure of irradiated animals. Cas. lek. cesk. 102 no.7:169-172
15 F '63.

1. Farmakologicky ustav lekarske fakulty KU v Hradci Kralove, prenota
prof. dr. V. Grossmann.
(EPINEPHRINE) (NOREPINEPHRINE) (PHARMACOLOGY)
(RADIATION EFFECTS) (BLOOD PRESSURE) (MICE) (RATS)

GROSSMAN, J.

GROSSMAN, V.; BOUSKA, S.:

Determination of bile in urine with methylene blue. Voj.zdrav.listy
19 no.11-12:273-274 Nov-Dec 50. (CLML 20:5)

GROSSMAN, V.

"Anticurare Effect of Physostigmine." p. 160, Praha, Vol. 1, no. 2, Sept. 1952.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

- USSR / Farm Animals: Cattle.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7309

Author : Grossman, V.; Geyets, L.
Inst : Moscow Academy of Agriculture imeni K. A.

Title : Timiryazov
Changes of the Composition of Milk During the
Period of Sexual Function

Orig Pub : Sb. nauchno-issled. rabot. Mosk. s.-kh. akad.
im. K. A. Timiryazeva, 1957 (1958), vyp. 7,
169-171

Abstract : It was established on 5 cows of the Kostrom-
skaya breed that the fat content of milk (in
g/100 ml) amounted before estrus to 3.97,
during estrus to 3.85 and after estrus to 3.47;
correspondingly, the content of dry substances
amounted to 12.41, 12.27 and 11.78 percent;

Card 1/2

Q

USSR / Farm Animals. Cattle.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7309

rennet coagulation (in min) amounted to 79,
64, 76; viscosity to 1.835, 1.55, 1.785; sur-
face tension to 49.9, 59.85, 76.6.

Card 2/2

SHKVARIKOV, V., otv. red.; SOKOLOVA, Ye., red.; GROSSMAN, V., red.;
MOROZOVA, G.V., red.izd-va; MOCHALINA, Z.S., tekhn. red.

[Regional planning and city planning abroad] Opyt raionnoi planirovki i gradostroitel'stva za rubezhom; sbornik. Moskva,
Gosstroizdat, 1962. 159 p. (MIRA 15:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gra-
dostroitel'stva i raionnoy planirovki.
(Regional planning) (City planning)

GROSSMANN, V.; MRAZOVÁ, J.; VESELY, C.

Modification by ionising radiation of the central nervous
reactivity to stimulating drugs. Activ. nerv. sup. 5 no.4:
346-351 '63.

1. Department of Pharmacology and Department of Physiology,
Charles University, Faculty of Medicine, Hradec Kralove.

*

VOKROUHLICKY, Lubor; JURKOVIC, Vilo; BELOBRADEK, Zdenek; GROSSMAN
Vojtech.

Experimental ventricular tachycardia during radiation sickness.
Sborn.ved.prac.lek.fak.Karlov. Univ.(Hrad.Kral.) 6 no.1:27-30
'63.

1. 2nd Department of Medicine of the Medical faculty, Charles University at Hradec Kralove (head:prof. V.Jurkovic, M.D.); Department of Pathological Physiology of the Medical Faculty Charles University at Hradec Kralove (head:prof. DrSc.R.Vavra, M.D.) and Department of Pharmacology of the Medical Faculty, Charles University at Hradec Kralove (head:prof. V.Grossmann, M.D.).

*

GROSSMANN, Vojtech, prof., M.D.

Present experience with the changes of reactivity of the CSN
in the course of acute irradiation disease. Sborn.ved.prac.
lek.fak.Karlov. Univ. (Hrad.Kral.) 6 no.1:45-55 '63.

1. Head of the Institute of Pharmacology Charles University
Medical Faculty at Hradec Kralove.

*

12/10/2001

V. CIGELAR, V. GROSSMANN and M. HODANOVA, Departments of Medicinal Chemistry and of Pharmacology, Medical Faculty Charles University (Ustav lekarske chemie a Ustav farmakologie Lekarskej fakulty KU [Karlove University], Hradec Kralove.

"Changes in S^{35} Distribution in Organs of Irradiated Mice."

Prague, Ceskoslovenska Fysiologie, Vol 12, No 3, May 63; p 215.

Abstract: Three hours after i.v. administration of 10 microcuries of $S^{35}/20$ Cm. b.w., autoradiography revealed significantly lower level in blood, liver and kidney of mice that received 300 r than in controls. Two graphs, 3 Czech references.

GROSSMANN, Voytek [Grossmann, Vojtech]; DYNTAROVA, Gana [Dyntarova, Hana]

Changes in the cardiac activity of irradiated animals under the influence of adrenalin. Cesk. otolaryng. 12 no.6:19-22 D'63.

1. Kafedra farmakologii meditsinskogo fakul'teta Karlova universiteta, Gradets Kralove; rukovoditel': prof.dr.med.V. Grossmann.



KVETINA, Yaroslav [Kvetina, Jaroslav]; GROSSMANN, Voytek [Grossmann, Vojtech];
tekhnicheskoye sotrudnichenie. PETSA, O. [Pesa, O.]

Effect of pethidine and thiopental on the survival of irradiated animals. Cesk. otolaryng. 12 no.6:101-103 D'63.

1. Kafedra farmakologii Meditsinskogo fakul'teta Karlova universiteta v Gradtse Kralove (rukovoditel': prof.dr.med.Voytek Grossmann)

*

KHMELARZH, Vladimir [Chmelar, Vladimir]; GROSSMANN, Voitekh [Grossmann, Vojtech]; GODANEVA, Milena [Hodanova, Milena]

Changes in the distribution of radioactive sulfur S 35 in irradiated animals. Cesk. otolaryng. 12 no.6:171-173 D'63.

1. Institut meditsinskoy khimii (rukovoditel': dr. med. I.Gays), Institut farmakologii (rukovoditel': prof.dr.med. V.Grossmann) meditsinskogo fakul'teta Karlova universiteta v Gradtse Kralove.

*

CZECHOSLOVAKIA

GROSSMANN, V., KVETINA, J., and SRB, V. [affiliation not given].

"Symposium on the Change in the Reactivity of Irradiated Organisms"

Prague, Casopis Lekaru Ceskych, Vol CII, No 23, 31 May 63,
pp 644-646.

Abstract: The Symposium took place in Hradec Kralove, 17 and 18 May 1962. Sponsors were the Faculty of Medicine, Charles University in Hradec Kralove, Czechoslovak J.Ev. Purkyne Medical Society (Ceskoslovenska lekarska spolecnost J.Ev. Purkyne), and Military Medicine Research and Training Institute (Vojensky lekarsky vyzkumny a doskolovaci ustav).
Agenda: Changes in the reactivity of the cardiovascular system following irradiation; effect of ionization on vegetative functions; changes in the liver following irradiation; and changes in the permeability of barriers in irradiated animals.

GROZI MANN, Vojtech, prof. MUDr. Techn. spoluprace: DYNITARGVA, Iana; OLERICH, Pepe

The change in the effect of atropine on the pressor action of the blood pressure during the atroparesis in rats and its causes.
Storn. ved. prac. lek. fak. Karlov. Univ. 7 no.4:513-521 '64.

I. Katedra Farmakologie (profesorka: prof. MUDr. V. Gyrmanová)
Lekarske fakulty Karlovy Univerzity v Praze, Praha.

CHMELAR, Vladimír; GROSSMANN, Vojtěch, prof. MUDr.; technická spolupráce:
HODANOVA, M.

Tracing of the distribution of sulfur sulfate by means of S35
in the organs of irradiated mice. Sborn. ved. prac. lek. fak.
Karlov. Univ. 9 no.1:191-196 '64.

1. Ustav lekarske chemie (prednosta: MUDr. I. Hais) a Katedra
farmakologie (prednosta: prof. MUDr. V. Grossmann) Karlovy
University v Hradci Kralove.

L 13581-66 EWT(m)

ACC NK: AP6005062

SOURCE CODE: CZ/0053/65/014/004/0304/0304

33
B

AUTHOR: Martinkova, J.; Grossmann, V.

ORG: Institute of Pharmacology, Medical Faculty, Charles University, Hradec Kralove
(Farmakologicky ustav lek. fak. KU)

TITLE: Changes in procaine metabolism in irradiated rats [This paper was presented during the Twelfth Pharmacologic Days, Smolenice, 29 Jan 65.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 304

TOPIC TAGS: rat, biologic metabolism, radiation biologic effect, nervous system drug, anesthetic

ABSTRACT: In whole-body irradiated rats with a lethal dose (600 r) and treated with procaine 15 mg /Kg i.v. and 25 mg /Kg p.o. treated 6 days postirradiation, the quantity of procaine excreted as such was significantly lower than in nonirradiated animals. M. Brunatova and E. Felgrova participated in the technical work. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 007

Card 1/1 HU

KOKOREV, V.; GROSSMAN, V.

Let's make efficient use of capital investments. Sov.torg.
35 no.2:1-5 F '62. (MIRA 15:1)
(Mercantile buildings)

GROSSMAN, V. kandidat arkitektury.

Buildings made out of reeds. Stroitel' no.8:15-18 Ag '57.

(Reed (Botany)) (Building)

(MERA 10:9)

GROSSMANN, Vojtech, prof. MUDr.; TULACH, Jiri; Technicke spoluprace:
HORACKOVA,O.; PECA, O.; OCHRYMOVIC, O.

A contribution to changes in the effect of physostigmine on
the blood pressure of irradiated rats. Sborn. ved. prac. lek.
fak. Karlov. Univ. 9 no.1:183-190 '64.

1. Katedra farmakologie (prednosta: prof. MUDr. V. Grossmann);
Katedra toxikologie (prednosta: doc. MUDr. Z. Fink) Karlovy
University v Hradce Kralove.

Kh. S. L., b. 1937, engineer, urban planning, married, no children (pr. 1 child, 1 son and 1 daughter). Moscow, 1958. Member of Komsomol USSR. (of candidate for the degree of Candidate of Architecture Sciences.)

Su: Kh. S. L., Re: . 26 November 1957. Moscow .

GROSSMAN, V.G., arkitektor.

Planning and Landscaping of housing developments in Sweden. Gor.
knoz. Mosk. 29 no.12:30-34 D '55. (MLRA 9:3)
(Sweden--Apartment houses)

GROSSMAN, V.G., kandidat arkhitektury.

Apartment house equipment and facilities in Sweden. Gor.khoz.Mosk.
30 no.4:33-38 Ap '56. (MLRA 9:8)
(Sweden--Apartment houses)

BRANDENBURG, B.Yu., arkhitektor; GROSSMAN, V.G., arkhitektor; KALISH,
V.G., arkhitektor, nauchnyy red.; PAVLENKO, M.V., red.izd-va;
TEMKINA, Ye.L., tekhn.red.

[Hotel-type apartment houses; design and construction] Zhilye
doma gostinichnogo tipa; opyt proektirovaniia i stroitel'stva.
Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam,
1960. 151 p.

(MIRA 13:6)

(Apartment houses)

KUKHARENKO, V.K., inzh.; DEMIN, I.V., inzh.; GROSSMAN, V.S., inzh.; SERIKOVA, V.F., inzh.

"Overall mechanization in butter factories" by A.V. Titov.
Reviewed by V.K. Kukharenko and others. Mekh. i avtom. proizv.
17 no.5:55 My '63. (MIRA 16:6)

1. Gosudarstvennyy institut po proektirovaniyu masloboynoy,
shirovoy, mylovarennoy, parfyumernoy i margarinovoy promys-
lennosti.

(Creameries--Equipment and supplies)
(Titov, A.V.)

GROSSMAN, Ya.D., gorn.inzh.; KOZAKOV, Ye.M., gorn.inzh.

Improve the work of underground sections. Gor.zhur.
no.8:12-14 Ag '60. (MIRA 13:8)

1. Uralgiproruda, Sverdlovsk.
(Mining engineering)

KRYZHOV, L.V., kand.ekon.nauk; GROSSMAN, Ya.D., gornyy inzh.; KOZAKOV,
Ye.M., gornyy inzh.; LOBANOV, N.Ya., gornyy inzh.

Increase the economic efficiency of crushing iron ores under-
ground. Gor. zhur. no.9:17-19 S '62. (MIRA 15:9)

1. Ural'skiy gosudarstvennyy institut po proyektirovaniyu
razrabotki rudnykh mestorozhdeniy, Sverdlovsk.
(Iron mines and mining) (Ore dressing)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4

GROSSMAN, Ya. L. Cand. Med. Sci.

"Carelessness -- Major Causes of Trauma in Children of Capitalistic Countries,"
Pediatriya, No.5, 1949

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4"

GROSSMAN, Ya. L.

GROSSMAN, Ya. L., doktor meditsinskikh nauk

Third interrepublic session of the Institutes of Resort Therapy
and Physical Therapy of Transcaucasia. Vop.kur., fizioter. i lech.
fiz.kul't. 22 no.3:92-93 My-Je '57. (MIRA 11:1)
(TRANSCAUCASSIA--HEALTH RESORTS, WATERINGPLACES, ETC.)

GROSSMAN, Ya.L., doktor meditsinskikh nauk

Out-of-town session of the Armenian Institute of Resort Therapy
held at Arzni. Vop.kur.fizioter. i lech.fiz.kul't. 22 no.4:93-94
Jl-Ag '57. (MIRA 10:11)
(ARZNI--MINERAL WATERS)

GROSSMAN, Ya.L., doktor med. nauk

Health education work in the reorganization of rural public health
in Chernovitsy, Province. Gig. i san. 23 no.8:40-44 Ag '58 (MIRA 11:9)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo instituta sanitarnogo
prosvetshcheniya.

(HEALTH EDUCATION,
in Russia, in rural pub. health organiz. (Rus))

GROSSMAN, Ya.L., doktor meditsinskikh nauk, prof.; KAGANOVIKH, R.B., kand.
istoricheskikh nauk (Moskva)

People's universities of health. Sov.zdrav. 20 no.2:51-55 '61.
(MIRA 14:5)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo Instituta sanitarnogo
prosvetshcheniya Ministerstva zdravookhraneniya SSSR.
(HEALTH EDUCATION)

GROSSMAN, Ya.L., doktor meditsinskikh nauk

Participation of nurses in introducing some forms of sanitary instruction to the population. Med. sestra 2C no.11:18-21 N '61. (MIRA 15:2)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta sanitarnogo proshveshcheniya Ministerstva zdravookhraneniya SSSR, Moskva.
(HEALTH EDUCATION)

25 (2), 28 (1), 8 (5)

S/105/60/000/02/002/024

AUTHORS: Shapiro, I. L., Engineer,
Grossman, Ye. M., Engineer, Raisov, Yu. A., Engineer,
Tikhvinskiy, Yu. V., Engineer (Khar'kov)

B007/B008

TITLE: A Digital Programming Control System¹⁴ for a Heavy Lathe

PERIODICAL: Elektrichestvo, 1960, Nr 2, pp 9 - 12 (USSR)

ABSTRACT: A digital programming control system which was developed for a heavy lathe is described here. It was worked out jointly by the TsKB po elektroprivodu i avtomatiki KhEMZ (Central Design Bureau for Electric Drive and Automation of the Khar'kov Electromechanical Plant) and the laboratoriya avtomatiki KhPI (Research Laboratory for Automation at the KhPI). The lathe has a height of centers of 500 mm and a length between centers of up to 4,000 mm. Work pieces of a weight of up to 10 tons and with an intricately curved surface can be machined on it. The nominal accuracy of machining amounts to up to 0.1 mm. A kinematic connection between the support and the gearbox is not provided. A digital programming control system with control step-by-step motors and an intermediate recording of the program on a magnetic tape was stipulated for this lathe. The reasons

Card 1/3

✓

A Digital Programming Control System for a Heavy Lathe

S/105/60/000/02/002/024
B007/B008

which led to the selection of the very system are indicated. The block scheme is shown in figure 1 and the schematic wiring diagram for the electrical main drives of the lathe is shown in figure 2. When controlling the lathe according to a given program, the program is recorded on the magnetic tape. The work program for the motor for the longitudinal feed of the support is recorded on one track of the tape, that for the cross feed of the support on the second and third, and on the fourth track the work program for the main motor and the gearbox, the signal for the termination of the machining, as well as the auxiliary commands. A dismantled step-by-step motor is shown in figure 3. It weighs approximately 23 kg. The mode of operation of the system is explained. Since the machining of bulky pieces takes often many hours, a number of intermediate stations for the support are provided in the program for every tool bit at predetermined positions. Two rigidly mounted measuring heads are provided, one on the support slide and the second on the support carriage for the exact synchronizing of the support position with the program recorded on the tape.

Moreover, an additional installation is available. This allows

Card 2/3

A Digital Programming Control System for a Heavy Lathe S/105/60/000/02/002/024
B007/B008

to put the lathe into operation in a simple way. This installation contains a special combined recording-reading magnetic head. For manual control, the switching on, stopping, reversing, and control for the speed of the step-by-step motors of the support and main motor of the lathe is done with the help of a set of devices. Their mode of action is described here briefly. The model of the installation for recording onto the magnetic tape and the model of the electric drive with programming control were investigated experimentally at the Research Laboratory. The computations and the results of the investigation showed that the application on heavy lathes of the control system described here is absolutely appropriate. A final and complete evaluation can however not be given at present. Many months of tests in industrial work are needed. The cost of the lathe shown here amounts to 120% of that of a lathe with conventional manual control. If a computing center is available, the need for recording a program on a magnetic tape is eliminated. There are 4 figures.

✓

SUBMITTED: July 20, 1959
Card 3/3

NEMIROVSKIY, R.Ya.; OVCHINNIKOVA, Ye.N.; GROSSMAN, Ye.M.

Safety device for presses, lathes, and other machines, using
capacitive perturbations of high-frequency fields produced by a
single-tube two-circuit oscillator. Trudy OGMI no.27:45-47 '61.
(MIRA 16:6)

(Machinery--Safety applicances)

ACCESSION NR: AT4018984

S/2599/63/000/036/0023/0032

AUTHOR: Burman, E. A.; Grossman, Ye. M.

TITLE: Application of the structural method for determination of the turbulence characteristics in the surface layer on the Black Sea coast of the Ukraine

SOURCE: Kiev. Ukr. n.-i. gidrometeor. institut. Trudy*, no. 36, 1963. Voprosy* fiziki atmosfery* (Problems in atmospheric physics), 23-32

TOPIC TAGS: meteorology, atmospheric turbulence, meteorological instrument, turbulence coefficient, turbulent exchange, wind, hot-wire anemometer, wind velocity

ABSTRACT: An apparatus for determination of the coefficient of turbulent exchange in the surface layer under field conditions was developed in 1957-1958 in the meteorology laboratory of the Odesskiy hidrometeorologicheskiy institut (Odessa Hydrometeorological Institute). The apparatus is based on the principle of a low-inertia hot-wire anemometer. Microfluctuations of the horizontal and vertical components of wind velocity are recorded on an oscillograph tape. This gives the structural characteristics of the wind field,

Card 1/6 3

ACCESSION NR: AT4018984

rigorously synchronized in time. The Ye. S. Lyapin structural formula is used:

$$k = \frac{1}{2} \frac{\bar{w}^2 v}{\bar{v}^2} \frac{1}{\bar{\tau}}, \quad (1)$$

where \bar{w} is the mean absolute value of fluctuations of the vertical component of wind velocity, v is the mean value of the wind velocity modulus, \bar{v} is the mean absolute value of fluctuations of the wind velocity modulus, $\bar{\tau}$ is the mean duration of vertical fluctuations of the same sign, k is the coefficient of turbulent exchange. Fig. 1 and Fig. 2 of Enclosure show the block diagram and a circuit diagram of the apparatus. Breezes along the Black Sea coast of the Ukraine were studied with the above-mentioned apparatus and method in 1957, 1958 and 1959 by the Meteorology and Aerology Department of the Odessa Hydrometeorological Institute, supplemented by standard aerological and meteorological observations. The observation program is described. Data on turbulent exchange in the surface layer are tabulated. It was found that turbulent exchange at the boundary between the land and sea develops very weakly during a daytime sea breeze but the nighttime values of the turbulence coefficient in the shore zone coincide with the values for a homogeneous surface. Orig. art. has: 5 formulas, 4 figures and 2 tables.

Card 2/83

ACCESSION NR: AT 4018984

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut,
Kiev (Ukrainian Hydrometeorological Scientific Research Institute)

SUBMITTED: 00 DATE ACQ: 27Mar64 ENCL: 03

SUB CODE: AS NO REF SOV: 012 OTHER: 001

Card 3/63

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4

GROSSMAN, Ye. V., KELDYSH, M. V., MARIN, N. I.

Vibrations in Aircraft, BMT, 1942.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R000617110001-4"

GROSSMAN, Yu. L.

32774. Besprizornost'-prichina travmatizma detey v kapitalisticheskikh stranakh-pediatriya, 1949, No. 5, s. 68-69

so: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

GROSSMANN, ALEKSANDAR

Mathematical Reviews
Vol. 14 No. 111
Dec. 1953
Analysis

Grossmann, Aleksandar. "Sur une propriété des ensembles ordonnés." Hrvatsko Prirodoslovno Društvo. Glasnik Mat.-Fiz. Astr. Ser. II. 8, 24-26 (1953). (Serbo-Croatian summary)

Let ξ be an arbitrary ordinal number, and E be an ordered set with $|E| \leq \aleph_\xi$. It is shown that either $\Gamma(E)$ (i.e., the upper bound of the ordinals of all well-ordered subsets of E) is less than $\omega_{\xi+1}$, or else E is an ordered sum of sections of E , over an ordered set J such that, for every interval I of J , $\Gamma(I) = \omega_{\xi+1}$. This was proved by Shephardson [Proc. London Math. Soc. (3) 1, 291-307 (1951), p. 304, Corollary; these Rev. 13, 330]. F. Bagemihl (Princeton, N. J.).

81648

S/181/60/002/06/38/050
B006/B056*24.7800*

AUTHORS:

Ariya, S. M., Grossmann, G.

TITLE:

The Magnetic Susceptibility of Solid Solutions¹⁶ of Vanadium Dioxide in Titanium Dioxide

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 6, pp. 1283 - 1286

TEXT: The present paper makes a contribution to the plan of a systematic investigation of the magnetic properties of oxides of varying composition. The samples were obtained by continuous heating of $\text{VO}_2\text{-TiO}_2$ powder mixtures at 800°C in well-evacuated quartz ampoules. After preliminary annealing during 24 hours the material was pulverized once more and again heated for a period of 24 hours. The magnetic susceptibility was then measured, which was again followed by pulverization and heating for 100 hours. As shown by a subsequent susceptibility measurement, its value had not changed. The samples obtained were investigated by X-ray examination at the Roentgenographical Laboratory of the khimicheskiy fakul'tet LGU (Chemical Department of Leningrad State University) by Ye. V. Stroganov and I. I. Kozhina. The method of susceptibility measure-

Card 1/3

✓

The Magnetic Susceptibility of Solid Solutions
of Vanadium Dioxide in Titanium Dioxide

81648

S/181/60/002/06/38/050
B006/B056

ment is described in Ref. 1. Results are given in tables and diagrams. Fig. 1 shows the temperature dependence of χ within the range of 20-90°C for samples with different (30-100%) VO_2 content; the corresponding numerical values are given in Table 1. Table 2 gives the values of the susceptibilities (χ), of the constants of the Curie-Weiss law, and the effective magnetic moments for pure VO_2 , pure TiO_2 , and samples with 20 and 10 mole% VO_2 . Fig. 2 shows the dependence of the paramagnetic component of χ per gram-atom of vanadium on the VO_2 concentration at different temperatures. The curves show that the susceptibility of solid $\text{VO}_2\text{-TiO}_2$ solutions is not additively composed of the susceptibilities of the components. Fig. 3 shows the temperature dependence of the reciprocal susceptibility of 4 samples of different composition. The results are briefly discussed, and are compared with those obtained by Rüdorff (Refs. 6,7). There are 3 figures, 2 tables, and 7 references: 1 Soviet, 4 German, 1 French, and 1 American.

X

Card 2/3

81648

The Magnetic Susceptibility of Solid Solutions S/181/60/002/06/38/050
of Vanadium Dioxide in Titanium Dioxide B006/B056

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State
University)

SUBMITTED: July 9, 1959

X

Card 3/3

GROCHMAN, J.

Building technique in soundproof construction, p. 237. I-ZEHN STAVBY.
(Ministerstvo stavebnictvi) Praha, Vol. 1, no. 6, June 1955.

SOURCE: East European Acquisitions List (EEAL), Library of Congress,
Vol. 4, No. 12, December 1955.

GROSSMANN, J.

Hemolytic disease of newborn with antic (hr') isoimmunization.
Cesk.pediat.15 no.11:1026-1028 N°60.

1. Novorodenecky usek KUNZ v Ziline, prednosta MUDr. J.Grossmann.
(ERYTHROBLASTOSIS FETAL case reports)

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R000617110001-4

GROSSMAN, J.



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R000617110001-4"

GROSSMANN, J.

How do we feed newborn infants with Pierre Robin's syndrome. Cesk.
pediat. 17 no.11:1025-1026 N '62.

1. Novorodenecky usek OUNZ v Ziline, veduci dr. J. Grossmann.
(JAWS) (TONGUE) (INFANT NEWBORN DISEASES)
(INFANT NUTRITION)

GROSSMANN, J., MD

CZECHOSLOVAKIA

GROSSMANN, J., MD; MALÝ, V., MD; PAUL, M., MD; SMÍD, V., MD;
STEFÁNEK, J., MD.

1. Internal Medicine Ward OUNZ (Interni oddelení OUNZ),
Jihlava (for Smid); 2. Radiological Ward OUNZ (Radiolo-
gické oddelení OUNZ), Jihlava (for Maly); 3. Okres
Transfusion Station (Okresní transfuzní stanice), Jihlava
(for Paul)

Prague, Prakticky lekar, No 13-14, 1963, pp 529-530

"Treatment of Neurological Complications in Acute Leukemia."

GROSSMANN M.

36. Experiments for the production of alter-chlorinated poly-vinyl chloride, II.* (In German) X. Groll & M. Grossmann, H. Zaufta. Periodisch Technik, Chemische
Engineering, Vol. 3, 1953, No. 9, pp. 183-197, 8 figs, 6 tabs.

The changes in the chlorine content of the molecular weight were studied in different solvents and the influence of the nature and amount of the applied catalyst was investigated. The chlorination catalysts were $TiCl_3$, BF_3 , $HgCl_2$, and $PtCl_4$. It was found that those catalysts were especially effective in an ethylene dichloride solution. The rate of the chlorination was not increased by using the catalyst in greater than 3% concentration. The extent of the degradation of the molecule is a function of the temperature, the optimum being at 150° C. At this temperature, a 20% decrease of the molecular weight was found.

4
2 May
46 2-4

grf

Dr. GROSSMAN

V. GROSSMAN, Head (prednostek) Department of Radiobiology of Animal
Faculty of Medical University (Univerzita Lékařská), 1st Faculty of
Medical University, Brno, Czechoslovakia.

"Investigation on fundamental biological effects of ionizing radiation on
the molecular level."

Priroda, Časopis České Akademie Věd, Vol 102, no 7, 1976 (pp 369-381)
separately published "Medical Science Abroad" (titles, year & volume).

International Symposium held in Brno July 1971, sponsored by International
Atomic Energy Agency, 22 Czechoslovak and 65 foreign participants
to focus on effect of radiation on proteins, nucleic acids, macromolecules,
enzymes, cellular physiogenesis, small biological structures and phagocytosis, basic
mechanisms of physical and chemical effects, and basic mechanisms in
protection.

U/1

GROSSMANN, V.; KASALICKY, B.

Inhibition of serum cholinesterase by certain derivatives of 4-hydroxylkumarin. Cas. lek. cesk. 89 no. 17:487-488 29 Apr '50.
(CML 19:2)

1. Of the Pharmacological Institute of Charles University (Head -- Prof. B. Polak, M.D.), Prague.

GROSSMANN, V.

CZECH

M ✓ Anticoagulants and cholinesterases. II. The type of inhibition of cholinesterase by Pelantan. Vojtěch Grossmann and Bohumil Kasalický (Farmakol. Učenav. Přírody) Časopis Lékařů Českých 89, 488-92 (1950); cf. C.A. 44, 6450c.—The inhibitory action of Pelantan (I) on human serum cholinesterase (II) is approx. 1/6000, on human acetylcholinesterase 1/4 of the inhibitory action of physostigmine. The anticholinesterase activity depends on the whole dicumarol mol. and is modified by further chem. substitution. The II inhibition by I is of the reversible competitive type. The affinity of I for II is lesser than for other protein mols. of serum, as demonstrated by its dialysis; though only a minute amt. of I was removed from the serum, II was reactivated. Anthony Ženíšek

CA

✓✓

Effect of β -metoxyacetone on specific and nonspecific cholinesterase. V. Grossmann and B. Kasalicky (Univ. Charles, Prague, Czechoslovakia). *Compt. rend. soc. biol.* 144, 93-5 (1960).—The nonspecific cholinesterase of human serum is inhibited by all concns. of the compd.; the degree of inhibition is proportional to the concn. The specific cholinesterase of the red corpuscles is slightly increased in activity by low concns. and partially inhibited by very high concns. L. E. Gilson

CA

11

Inhibition of human serum cholinesterase by some 4-hydroxycoumarin derivatives. V. Grunmann, I. M. Hais, and B. Kašlický; (Charles Univ., Prague). *Nature* 193, 270 (1962). - Of the esters of bis(4-hydroxy-3-coumarinyl)acetic acid (Pentanate) (I) the ethyl ester (Pentant) (II) has certain advantages over 3,3'-methylenebis(4-hydroxycoumarin) (III) as an anticoagulant. It was found in this investigation that III also has about half the inhibitory effect of II on cholinesterase. Esters of I had inhibitory effects increasing with the length of the esterifying radical over the range C₂ to C₆. The ethylene glycol ester of I which differs from II by an OH in the esterifying radical has a much lower anticholinesterase activity and is a weaker coagulant than II. The physiol. significance of the inhibition of cholinesterase by these anticoagulants is not known. D. F.